



CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Chief, Enforcement Branch  
Water Division (WC-15J)  
United States Environmental Protection Agency  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

RECEIVED

FEB 04 2018

WATER ENFORCEMENT & COMPLIANCE  
ASSURANCE BRANCH, EPA, REGION 5

January 15, 2019  
PJ/DW

Subject: Consent Decree – Case No. 2:96-CV-96-RL-1  
Dewatering Well System, 4th Quarter 2018  
ArcelorMittal Burns Harbor, LLC

Dear Sir:

This is to provide the quarterly monitoring report required by Paragraph 23 of the subject Consent Decree. Attachment 1 provides a summary of the nitrogen ammonia analytical results for the monthly grab samples of the combined dewatering well waters as required by Paragraph 20 of the Decree. Attachment 2 provides a table that depicts the daily total flow in thousand gallons per day, from the dewatering well system as required in Paragraph 19 of the Decree. Attachment 3 provides the "East Harbor Arm – Dewatering Monitoring Status Report" sheets for October, November, and December, 2018 compiled by our groundwater consultant, Weaver Consultants Group. These reports provide the level of groundwater in each of the piezometers and the Outfall 002 surface water staff gauge levels as required by Paragraph 9 of the Decree.

This letter will also provide Burns Harbor's statement that "all of the wells, pumps, and pipes in the Dewatering Well System are functioning", as specified in Paragraph 23 of the Decree.

As described in previous letters on October 23, 2000 and January 23, 2001 from D. Bley to Mr. J. Fillippini, et. al., and as witnessed by Mr. G. Golubski, water levels in Lake Michigan had been extremely low. Recently, the lake has begun to rise. The average level for the quarter was 581.2 feet with a low of 580.5 feet.

The Decree requires that the ground water in the piezometers along the face of the dock wall be maintained at certain depths in reference to Lake levels. These depths vary from piezometer to piezometer and were based on Burns Harbor's experience in operating the wells in 1996 and 1997. The dewatering wells continue to operate properly but several are at depths near their screens and cannot be adjusted lower. Some have valves that have been adjusted wide open. As a result, it has not been possible to maintain the depths



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specified in the Decree for the piezometers. In the past quarter, several of the piezometers were consistently above the level specified. Several of the piezometers are now sporadically operating at the levels required by the Decree. However, there is a limit to the level that the wells can operate without damaging the screens or the pumps, and for many of the wells, we have reached that limit.

As noted in previous quarterly reports, Mr. Bley has received your office's informal agreement that the drop in lake water level should be viewed as a "force majeure" under the Decree. The more important point is that the well system continues to operate in a manner that meets its purpose.

If there are any questions concerning this matter, please contact T. E Kirk or me at (219) 787-2712.

I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and that I have made a diligent inquiry of those individuals immediately responsible for obtaining the information and that to the best of my knowledge and belief, the information submitted herewith is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Very truly yours,

R.A. Maciel  
Environmental Management Department

Attachments

cc: S. Choi, USEPA

January 15, 2019  
Ref: PJ/RA/DW

Attachment 1  
ArcelorMittal Burns Harbor, LLC  
Nitrogen Ammonia Analytical Report  
Dockwell Sampling Summary

<u>Date</u>	<u>Nitrogen Ammonia (mg/l)</u>
10/05/2018	8.5
11/08/2018	8.8
12/05/2018	7.9

Attachment 2  
ArcelorMittal Burns Harbor LLC  
Dewatering Well Flow

<u>Date</u>	<u>Flow TGD</u>	<u>Date</u>	<u>Flow TGD</u>	<u>Date</u>	<u>Flow TGD</u>
01-Oct-18	398	01-Nov-18	367	01-Dec-18	375
02-Oct-18	401	02-Nov-18	365	02-Dec-18	366
03-Oct-18	404	03-Nov-18	365	03-Dec-18	364
04-Oct-18	420	04-Nov-18	361	04-Dec-18	365
05-Oct-18	374	05-Nov-18	361	05-Dec-18	363
06-Oct-18	372	06-Nov-18	361	06-Dec-18	383
07-Oct-18	369	07-Nov-18	362	07-Dec-18	404
08-Oct-18	376	08-Nov-18	367	08-Dec-18	399
09-Oct-18	369	09-Nov-18	368	09-Dec-18	390
10-Oct-18	366	10-Nov-18	366	10-Dec-18	388
11-Oct-18	385	11-Nov-18	360	11-Dec-18	387
12-Oct-18	403	12-Nov-18	378	12-Dec-18	386
13-Oct-18	401	13-Nov-18	399	13-Dec-18	391
14-Oct-18	399	14-Nov-18	400	14-Dec-18	396
15-Oct-18	400	15-Nov-18	400	15-Dec-18	398
16-Oct-18	398	16-Nov-18	398	16-Dec-18	394
17-Oct-18	396	17-Nov-18	379	17-Dec-18	400
18-Oct-18	420	18-Nov-18	373	18-Dec-18	398
19-Oct-18	385	19-Nov-18	371	19-Dec-18	397
20-Oct-18	382	20-Nov-18	370	20-Dec-18	394
21-Oct-18	382	21-Nov-18	385	21-Dec-18	351
22-Oct-18	377	22-Nov-18	392	22-Dec-18	350
23-Oct-18	375	23-Nov-18	383	23-Dec-18	339
24-Oct-18	374	24-Nov-18	367	24-Dec-18	334
25-Oct-18	387	25-Nov-18	353	25-Dec-18	333
26-Oct-18	376	26-Nov-18	360	26-Dec-18	333
27-Oct-18	360	27-Nov-18	365	27-Dec-18	356
28-Oct-18	360	28-Nov-18	363	28-Dec-18	372
29-Oct-18	357	29-Nov-18	364	29-Dec-18	373
30-Oct-18	355	30-Nov-18	349	30-Dec-18	371
31-Oct-18	359			31-Dec-18	371

TDG\* - Thousand gallons per day



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Consent Decree – Case No. 2:96-CV-96-RL-1  
Dewatering Well System Monitoring, 4th Quarter 2018  
ArcelorMittal Burns Harbor, LLC

Attachment 3 – Dewatering Well Status Reports

**STATUS REPORT**  
Mittal Steel USA  
Burns Harbor  
East Harbor Arm - Dewatering Report  
Weekly Status Report



Observations by: J. Slough  
Weaver Consultants Group, LLC

Date: 10/4/2018 Time: 9:00 AM Barometric Pressure: 30.07 (in Hg) Temperature (F): 61.0  
Staff Gauge (002) Elevation: 581.80 (Ft., MSL) Weather Conditions: Overcast Wind Direction: NE 9 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.85	572.47	46			30,416
P-511	592.29		F	#VALUE!		X	#VALUE!	
DW-2	595.91	24.0	10.05	585.86	x		568.21	17,205
P-512	593.16		X	#VALUE!		25.0		
DW-3	596.13	22.0	21.25	574.88	42			559,911
P-513	592.81		8.41	584.40		21.3	571.54	
DW-4	596.28	23.0	22.81	573.47	44			76,980
P-514	592.80		X	#VALUE!		X	#VALUE!	
DW-5	596.16	21.0	20.45	575.71	42			71,795
P-515	592.65		8.67	583.98		22.2	570.46	
DW-6	596.46	24.0	23.15	573.31	72			90,135
P-516	596.30		12.72	583.58		31.2	565.12	
DW-7	596.39	25.0	24.75	571.64	29			92,811
P-517	596.55		12.89	583.66		29.6	566.93	
DW-8	596.21	24.5	23.76	572.45	30			85,821
P-518	596.17		12.24	583.93		30.5	565.66	
DW-9	596.16	24.5	16.15	580.01	42			13,948
P-519	596.56		11.96	584.60		31.2	565.33	

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	24.0	23.95	572.52	45			135,195
P-520	595.93		11.38	584.55		30.26	565.67	
DW-11	595.82	25.7	24.00	571.82	30			259,455
P-521	596.19		11.61	584.58		33.36	562.83	
DW-12	595.28	26.5	25.65	569.63	35			49,234
P-522	595.17		9.81	585.36		32.9	562.28	
DW-13	594.83	27.0	26.87	567.96	25			34,966
P-523	592.04		D	#VALUE!		D	#VALUE!	
DW-14	594.83	26.5	26.25	568.58	42			158,218
P-507	591.38		D	#VALUE!		D	#VALUE!	
DW-15	594.62	29.5	29.35	565.27	32			95,339
P-524	591.55		4.39	587.16		34.91	556.64	
P-508	591.37		D	#VALUE!		D	#VALUE!	
DW-16	594.81	36.0	35.29	559.52	32			36,912

Remarks
DW-2 was offline and could not be restarted.
DW-1, DW-4, DW-5, DW-6, DW-7, DW-8, DW-10, DW-12, DW-14 and DW-16 were adjusted up due to low initial water levels.
Attempted to adjust DW-11 down due to high water levels; however, attempts were unsuccessful due to the discharge valve being stuck.
DW-9 was wide open (left) upon arrival. Completely closed (right) and gradually re-opened valve. No significant change in water level.

Key: TOC=Top of Casing, north side Contact: Edward Stefanek, Senior Project Manager (574) 271-3447 Tel.  
DTW=Depth to Water 7121 Grape Road (574) 271-3343 Fax.  
DTB=Depth to Bottom Granger, IN 46530 estefanek@wcgrp.com

**STATUS REPORT**  
Mittal Steel USA  
Burns Harbor  
East Harbor Arm - Dewatering Report  
Weekly Status Report



Observations by: J. Slough  
Weaver Consultants Group, LLC

Date 10/11/2018 Time: 9:00 AM Barometric Pressure: 29.96 (in Hg) Temperature (F): 48.0  
Staff Gauge (002) Elevation: 581.30 (Ft., MSL) Weather Conditions: Overcast Wind Direction: NE 9 MPH

Well/ Piezo No.	Well/ Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	24.0	23.11	573.36	48		565.60	139,680
P-520	595.93		11.14	584.79		30.33		
DW-11	595.82	25.7	21.95	573.87	32		562.74	264,218
P-521	596.19		11.34	584.85		33.45		
DW-12	595.28	26.5	25.69	569.59	37		562.24	52,340
P-522	595.17		9.45	585.72		32.9		
DW-13	594.83	27.0	26.82	568.01	25		#VALUE!	35,949
P-523	592.04		D	#VALUE!		D	#VALUE!	
DW-14	594.83	26.5	25.73	569.10	45		#VALUE!	159,672
P-507	591.38		D	#VALUE!		D	#VALUE!	
DW-15	594.62	29.5	23.68	570.94	34		556.63	96,713
P-524	591.55		4.01	587.54		34.92		
P-508	591.37		D	#VALUE!		D	#VALUE!	
DW-16	594.81	36.0	34.40	560.41	36			37,446

Well/ Piezo No.	Well/ Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.52	572.80	48		#VALUE!	31,336
P-511	592.29		F	#VALUE!		X		
DW-2	595.91	24.0	8.66	587.25	X		17,206	
P-512	593.16		X	#VALUE!		25.0		
DW-3	596.13	22.0	21.26	574.87	44		563,491	
P-513	592.81		8.02	584.79		21.2		
DW-4	596.28	23.0	22.79	573.49	47		79,252	
P-514	592.80		X	#VALUE!		X		
DW-5	596.16	21.0	19.61	576.55	42		74,125	
P-515	592.65		8.55	584.10		22.2		
DW-6	596.46	24.0	23.25	573.21	72		92,623	
P-516	596.30		12.05	584.25		31.2		
DW-7	596.39	25.0	24.19	572.20	29		95,973	
P-517	596.55		12.26	584.29		29.7		
DW-8	596.21	24.5	23.65	572.56	30		88,593	
P-518	596.17		11.75	584.42		30.5		
DW-9	596.16	24.5	12.23	583.93	43		15,315	
P-519	596.56		11.96	584.60		31.3		

Remarks DW-1, DW-4, DW-5, DW-6, DW-7, DW-8, DW-10, DW-12, DW-14 and DW-16 were adjusted down due to high initial water levels.  
 DW-2 was offline and could not be restarted.  
 DW-11 attempts to make adjustments were unsuccessful due to the discharge valve being stuck.  
 DW-9 and DW-15 were adjusted down due to high initial water levels; however, attempts were unsuccessful due to the discharge valves being wide open (left).  
 Attempted to adjust DW-16; however, with additional turns to the left the water level began to rise. The pressure gauge is leaking in DW-9.

Key: TOC=Top of Casing, north side Contact: Edward Stefanek, Senior Project Manager (574) 271-3447 Tel.  
 DTW=Depth to Water 7121 Grape Road (574) 271-3343 Fax.  
 DTB=Depth to Bottom Granger, IN 46530 estefanek@wcgrp.com



**STATUS REPORT**  
Mittal Steel USA  
Burns Harbor  
East Harbor Arm - Dewatering Report  
Weekly Status Report

Observations by: P. Kostro  
Weaver Consultants Group, LLC

Date: 10/18/2018 Time: 9:45 AM Barometric Pressure: 29.96 (in Hg) Temperature (F): 48.0  
 Staff Gauge (002) Elevation: 581.20 (Ft., MSL) Wind Direction: NE 9 MPH  
 Weather Conditions: Sunny

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.56	572.76	52			32,447
P-511	592.29		F	#VALUE!		X	#VALUE!	
DW-2	595.91	24.0	9.08	586.83	X			17,206
P-512	593.16		X	#VALUE!		25.0	568.21	
DW-3	596.13	22.0	21.26	574.87	35			567,076
P-513	592.81		8.17	584.64		21.2	571.65	
DW-4	596.28	23.0	22.27	574.01	40			81,975
P-514	592.80		X	#VALUE!		X	#VALUE!	
DW-5	596.16	21.0	20.34	575.82	40			76,644
P-515	592.65		8.49	584.16		22.2	570.46	
DW-6	596.46	24.0	23.02	573.44	72			95,600
P-516	596.30		12.59	583.71		31.2	565.08	
DW-7	596.39	25.0	24.75	571.64	30			99,590
P-517	596.55		12.75	583.80		29.7	566.88	
DW-8	596.21	24.5	23.62	572.59	28			91,692
P-518	596.17		12.18	583.99		30.5	565.66	
DW-9	596.16	24.5	16.88	579.28	42			16,643
P-519	596.56		11.96	584.60		31.3	565.31	

Well/ Piezo No.	Well/Piezo Water Elev.	DTW (TOC) (feet)	Depth to T/Screen (feet)	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	23.78	24.0	40			144,250
P-520	595.93		11.41	584.52	30.33	565.60	
DW-11	595.82	25.69	25.7	29			288,792
P-521	596.19		11.63	584.56	33.45	562.74	
DW-12	595.28	26.43	26.5	29			55,929
P-522	595.17		9.82	585.35	32.9	562.24	
DW-13	594.83	26.86	27.0	20			36,864
P-523	592.04		D	#VALUE!	D	#VALUE!	
DW-14	594.83	26.42	26.5	35			161,327
P-507	591.38		D	#VALUE!	D	#VALUE!	
DW-15	594.62	30.79	29.5	29			97,956
P-524	591.55		4.36	587.19	34.92	556.63	
P-508	591.37		D	#VALUE!	D	#VALUE!	
DW-16	594.81	37.82	36.0	25			38,072

Remarks: DW-1 was adjusted down due to high initial water levels. DW-4, DW-5, DW-6, DW-7, DW-8, DW-10, DW-12, and DW-14 were adjusted up due to low initial water levels.  
 DW-2 was offline and could not be restarted.  
 DW-9 was adjusted down due to high initial water levels; however, attempts were unsuccessful due to the discharge valves being wide open (left).  
 Attempted to adjust DW-15 and DW-16; however, attempts were unsuccessful. The water levels would not move in either direction.

Key: TOC=Top of Casing, north side Contact: Edward Stefanek, Senior Project Manager (574) 271-3447 Tel.  
 DTW=Depth to Water 7121 Grape Road (574) 271-3343 Fax.  
 DTB=Depth to Bottom Granger, IN 46530 estefanek@wcgrp.com



**STATUS REPORT**  
Mittal Steel USA  
Burns Harbor  
East Harbor Arm - Dewatering Report  
Weekly Status Report

Observations by: J. Slough  
Weaver Consultants Group, LLC

Date 10/24/2018 Time: 10:00 AM Barometric Pressure: 30.23 (in Hg) Temperature (F): 39.0  
 Staff Gauge (002) Elevation: 581.10 (Ft., MSL) Weather Conditions: Overcast Wind Direction: NE 9 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.52	572.80	50			33,203
P-511	592.29		F	#VALUE!		X	#VALUE!	
DW-2	595.91	24.0	9.09	586.82	x		568.21	17,206
P-512	593.16		X	#VALUE!		25.0		
DW-3	596.13	22.0	21.32	574.81	42			570,732
P-513	592.81		8.23	584.58		21.2	571.65	
DW-4	596.28	23.0	22.45	573.83	47			84,239
P-514	592.80		8.39	584.41		25.1	567.75	
DW-5	596.16	21.0	19.55	576.61	42			79,152
P-515	592.65		8.69	583.96		22.2	570.46	
DW-6	596.46	24.0	23.23	573.23	72			98,071
P-516	596.30		12.66	583.64		31.2	565.08	
DW-7	596.39	25.0	24.85	571.54	29			103,318
P-517	596.55		12.93	583.62		29.7	566.88	
DW-8	596.21	24.5	24.06	572.15	30			95,071
P-518	596.17		12.34	583.83		30.5	565.66	
DW-9	596.16	24.5	16.28	579.88	42			18,153
P-519	596.56		11.96	584.60		31.3	565.31	

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	24.0	23.11	573.36	48			148,395
P-520	595.93		11.47	584.46		30.33	565.60	
DW-11	595.82	25.7	22.82	573.00	32			273,674
P-521	596.19		11.56	584.63		33.45	562.74	
DW-12	595.28	26.5	25.61	569.67	36			58,586
P-522	595.17		9.67	585.50		32.9	562.24	
DW-13	594.83	27.0	26.91	567.92	22			37,808
P-523	592.04		D	#VALUE!		D	#VALUE!	
DW-14	594.83	26.5	25.99	568.84	50			162,201
P-507	591.38		D	#VALUE!		D	#VALUE!	
DW-15	594.62	29.5	26.95	567.67	34			99,438
P-524	591.55		4.43	587.12		34.92	556.63	
P-508	591.37		D	#VALUE!		D	#VALUE!	
DW-16	594.81	36.0	35.95	558.86	32			38,727

Remarks DW-1, DW-4, DW-6, DW-10, DW-12, and DW-14 were adjusted down due to high initial water levels.  
 DW-7 and DW-16 adjusted up due to low initial water levels.  
 DW-2 was offline and could not be restarted.  
 DW-11 attempts to make adjustments were unsuccessful due to the discharge valve being stuck.  
 Attempts to adjust DW-9 and DW-15 due to high initial water levels were unsuccessful due to the discharge valves being wide open (left).

Key: TOC=Top of Casing, north side Contact: Edward Stefanek, Senior Project Manager (574) 271-3447 Tel.  
 DTW=Depth to Water 7121 Grape Road (574) 271-3343 Fax.  
 DTB=Depth to Bottom Granger, IN 46530 estefanek@wcgrp.com



**STATUS REPORT**  
Mittal Steel USA  
Burns Harbor  
East Harbor Arm - Dewatering Report  
Weekly Status Report

Observations by: P. Kostro  
Weaver Consultants Group, LLC

Date 11/11/2018 Time: 9:30 AM Barometric Pressure: 29.85 (in Hg) Temperature (F): 50  
 Staff Gauge (002) Elevation: 581.40 (Ft., MSL) Weather Conditions: Cloudy Wind Direction: E @ 8 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.87	572.45	46			34,421
P-511	592.29		F	#VALUE!		X	#VALUE!	
DW-2	595.91	24.0	21.35	574.56	30		568.21	17,646
P-512	593.16		X	#VALUE!		25.0		
DW-3	596.13	22.0	21.14	574.99	40		571.65	574,345
P-513	592.81		X	#VALUE!		21.2		
DW-4	596.28	23.0	22.79	573.49	45		567.75	87,016
P-514	592.80		8.61	584.19		25.1		
DW-5	596.16	21.0	20.49	575.67	42		570.46	81,477
P-515	592.65		8.88	583.77		22.2		
DW-6	596.46	24.0	23.39	573.07	52		565.08	101,094
P-516	596.30		12.69	583.61		31.2		
DW-7	596.39	25.0	24.99	571.40	30		566.88	107,084
P-517	596.55		12.80	583.75		29.7		
DW-8	596.21	24.5	23.51	572.70	30		565.66	98,463
P-518	596.17		12.06	584.11		30.5		
DW-9	596.16	24.5	15.14	581.02	39		565.31	18,516
P-519	596.56		11.96	584.60		31.3		

Well/ Piezo No.	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	24.0	23.91	572.56	48
P-520	595.93		10.55	585.38	
DW-11	595.82	25.7	10.19	585.63	16
P-521	596.19		10.75	585.44	
DW-12	595.28	26.5	25.71	569.57	34
P-522	595.17		9.59	585.58	
DW-13	594.83	27.0	26.89	567.94	24
P-523	592.04		D	#VALUE!	
DW-14	594.83	26.5	25.98	568.85	45
P-507	591.38		D	#VALUE!	
DW-15	594.62	29.5	28.71	565.91	34
P-524	591.55		4.44	587.11	
P-508	591.37		D	#VALUE!	
DW-16	594.81	36.0	37.71	557.10	32

Remarks DW-1, DW-7, DW-13 and DW-14 were adjusted up due to low initial water levels.  
 DW-5, DW-8, DW-10 and DW-15 adjusted down due to high initial water levels.  
 DW-2 attempts to make adjustments were unsuccessful due to the discharge valve being stuck.  
 DW-11 does not have electricity (disconnected).  
 DW-9 and DW-16 discharge valves will not raise or lower water levels although they will move in both directions.

Key: TOC=Top of Casing, north side Contact: Edward Stefanek, Senior Project Manager (574) 271-3447 Tel.  
 DTW=Depth to Water 7121 Grape Road (574) 271-3343 Fax.  
 DTB=Depth to Bottom Granger, IN 46530 estefanek@wcgrp.com

Observations by: P. Kostro  
Weaver Consultants Group, LLC

Date: 11/8/2018 Time: 9:45 AM Barometric Pressure: 29.85 (in Hg) Temperature (F): 38  
Staff Gauge (002) Elevation: 581.20 (Ft., MSL) Weather Conditions: Cloudy Wind Direction: E @ 8 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.01	573.31	50			35,221
P-511	592.29		F	#VALUE!		X	#VALUE!	
DW-2	595.91	24.0	23.04	572.87	38		568.21	580
P-512	593.16		X	#VALUE!		25.0	568.21	
DW-3	596.13	22.0	21.28	574.85	42		571.65	578,005
P-513	592.81		8.61	584.20		21.2	571.65	89,688
DW-4	596.28	23.0	22.99	573.29	45		567.75	
P-514	592.80		8.59	584.21		25.1	567.75	
DW-5	596.16	21.0	20.32	575.84	41		570.46	83,858
P-515	592.65		8.72	583.93		22.2	570.46	
DW-6	596.46	24.0	23.12	573.34	72		565.08	104,035
P-516	596.30		12.65	583.65		31.2	565.08	
DW-7	596.39	25.0	24.98	571.41	20		566.88	110,789
P-517	596.55		12.81	583.74		29.7	566.88	101,745
DW-8	596.21	24.5	23.72	572.49	30		565.66	
P-518	596.17		12.08	584.09		30.5	565.66	
DW-9	596.16	24.5	15.87	580.29	39		565.31	19,942
P-519	596.56		11.96	584.60		31.3	565.31	

Well/ Piezo No.	Well/Piezo Water Elev.	DTW (TOC) (feet)	Depth to T/Screen (feet)	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	23.33	24.0	48			157,197
P-520	595.93	10.52			30.33	565.60	
DW-11	595.82	10.17	25.7	0		562.74	274,321
P-521	596.19	10.68			33.45	562.74	
DW-12	595.28	25.97	26.5	35		66,007	
P-522	595.17	9.51			32.9	562.24	
DW-13	594.83	26.89	27.0	22		39,637	
P-523	592.04	D			D	#VALUE!	
DW-14	594.83	25.98	26.5	44		165,487	
P-507	591.38	D			D	#VALUE!	
DW-15	594.62	29.35	29.5	34		102,422	
P-524	591.55	4.38			34.92	556.63	
P-508	591.37	D			D	#VALUE!	
DW-16	594.81	37.71	36.0	31		40,136	

Remarks DW-1, DW-5 and DW-14 were adjusted down due to high initial water levels.  
 DW-2, DW-7, DW-14 and DW-15 adjusted up due to low initial water levels.  
 DW-2 has a new flow meter.  
 DW-11 does not have electricity (disconnected).  
 DW-9 and DW-16 discharge valves will not raise or lower water levels although they will move in both directions.  
 Contact: Edward Stefanek, Senior Project Manager  
 7121 Grape Road  
 Granger, IN 46530

Key: TOC=Top of Casing, north side  
 DTW=Depth to Water  
 DTB=Depth to Bottom

(574) 271-3447 Tel.  
 (574) 271-3343 Fax.  
 estefanek@wcgrp.com



**STATUS REPORT**  
Mittal Steel USA  
Burns Harbor  
East Harbor Arm - Dewatering Report  
Weekly Status Report

Observations by: P. Kostro  
Weaver Consultants Group, LLC

Date: 11/15/2018 Time: 10:15 AM Barometric Pressure: 30.11 (in Hg) Temperature (F): 31  
Staff Gauge (002) Elevation: 581.20 (Ft., MSL) Weather Conditions: Cloudy/Snow Wind Direction: E @ 8 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.12	573.20	48			36,319
P-511	592.29		F	#VALUE!		X	#VALUE!	
DW-2	595.91	24.0	23.02	572.89	38			1,223
P-512	593.16		X	#VALUE!		25.0	568.21	
DW-3	596.13	22.0	21.23	574.90	40			581,775
P-513	592.81		7.09	585.72		21.2	571.65	
DW-4	596.28	23.0	22.89	573.39	45			92,196
P-514	592.80		X	#VALUE!		25.1	567.75	
DW-5	596.16	21.0	19.99	576.17	42			86,216
P-515	592.65		X	#VALUE!		22.2	570.46	
DW-6	596.46	24.0	23.35	573.11	72			106,792
P-516	596.30		12.58	583.72		31.2	565.08	
DW-7	596.39	25.0	24.18	572.21	30			114,294
P-517	596.55		12.74	583.81		29.7	566.88	
DW-8	596.21	24.5	23.82	572.39	31			104,832
P-518	596.17		12.15	584.02		30.5	565.66	
DW-9	596.16	24.5	15.82	580.34	58			21,443
P-519	596.56		11.96	584.60		31.3	565.31	

Well/ Piezo No.	Well/Piezo Water Elev.	DTW (TOC) (feet)	Depth to T/Screen (feet)	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	23.42	24.0	573.05	48		161,500
P-520	595.93		11.48	584.45		30.33	565.60
DW-11	595.82	27.14	25.7	568.68	32		275,928
P-521	596.19		11.69	584.50		33.45	562.74
DW-12	595.28	25.51	26.5	569.77	36		69,474
P-522	595.17		9.75	585.42		32.9	562.24
DW-13	594.83	26.79	27.0	568.04	22		40,502
P-523	592.04		D	#VALUE!		D	#VALUE!
DW-14	594.83	25.97	26.5	568.86	44		167,043
P-507	591.38		D	#VALUE!		D	#VALUE!
DW-15	594.62	25.91	29.5	568.71	35		103,790
P-524	591.55		4.49	587.06		34.92	556.63
P-508	591.37		D	#VALUE!		D	#VALUE!
DW-16	594.81	35.01	36.0	559.80	33		40,852

Remarks: DW-1, DW-14 and DW-16 were adjusted up due to low initial water levels.  
 DW-4, DW-5, DW-6, DW-7, DW-8, DW-10 and DW-12 were adjusted down due to high initial water levels.  
 DW-9 discharge valve will not raise or lower water the level although the valve will move in both directions. DW-9 has a new pressure gauge.  
 DW-11 discharge valve is stuck and will not move in either direction.  
 DW-15 discharge valve is wide open (left) and the water level could not be lowered.

Key: TOC=Top of Casing, north side Contact: Edward Stefanek, Senior Project Manager (574) 271-3447 Tel.  
 DTW=Depth to Water 7121 Grape Road (574) 271-3343 Fax.  
 DTB=Depth to Bottom Granger, IN 46530 estefanek@wcgrp.com

**STATUS REPORT**  
Mittal Steel USA  
Burns Harbor  
East Harbor Arm - Dewatering Report  
Weekly Status Report



Observations by: P. Kostro  
Weaver Consultants Group, LLC

Date: 11/21/2018 Time: 10:15 AM Barometric Pressure: 30.30 (in Hg) Temperature (F): 32  
 Staff Gauge (002) Elevation: 581.30 (Ft., MSL) Weather Conditions: Cloudy Wind Direction: E @ 8 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.42	572.90	51			36,866
P-511	592.29		F	#VALUE!		X	#VALUE!	
DW-2	595.91	24.0	23.31	572.60	38			1,759
P-512	593.16		X	#VALUE!		25.0	568.21	
DW-3	596.13	22.0	21.26	574.87	40			584,984
P-513	592.81		7.24	585.57		21.2	571.65	
DW-4	596.28	23.0	22.79	573.49	45			94,451
P-514	592.80		8.29	584.51		25.1	567.75	
DW-5	596.16	21.0	19.52	576.64	41			88,361
P-515	592.65		8.54	584.11		22.2	570.46	
DW-6	596.46	24.0	23.51	572.95	48			107,541
P-516	596.30		12.09	584.21		31.2	565.08	
DW-7	596.39	25.0	24.02	572.37	30			117,237
P-517	596.55		12.50	584.05		29.7	566.88	
DW-8	596.21	24.5	24.48	571.73	31			107,318
P-518	596.17		12.09	584.08		30.5	565.66	
DW-9	596.16	24.5	15.76	580.40	58			22,644
P-519	596.56		11.96	584.60		31.3	565.31	

Well/ Piezo No.	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	24.0	23.03	573.44	48
P-520	595.93		11.83	584.10	30.33
DW-11	595.82	25.7	27.18	568.64	32
P-521	596.19		12.11	584.08	33.45
DW-12	595.28	26.5	25.51	569.77	36
P-522	595.17		10.08	585.09	32.9
DW-13	594.83	27.0	26.89	567.94	28
P-523	592.04		D	#VALUE!	D
DW-14	594.83	26.5	26.41	568.42	44
P-507	591.38		D	#VALUE!	D
DW-15	594.62	29.5	25.34	569.28	35
P-524	591.55		4.64	586.91	34.92
P-508	591.37		D	#VALUE!	D
DW-16	594.81	36.0	35.10	559.71	34

Remarks: DW-1, DW-5, DW-6, DW-7, DW-8 and DW-12 were adjusted down due to high initial water levels.  
 None of the wells were adjusted up due to low initial water levels.  
 DW-9 discharge valve will not raise or lower the water level although the valve will move in both directions.  
 DW-11 discharge valve is stuck and will not move in either direction.  
 DW-15 discharge valve is wide open (left) and the water level could not be lowered.

Key: TOC=Top of Casing, north side Contact: Edward Stefanek, Senior Project Manager  
 DTW=Depth to Water 7121 Grape Road  
 DTB=Depth to Bottom Granger, IN 46530

(574) 271-3447 Tel.  
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**STATUS REPORT**  
Mittal Steel USA  
Burns Harbor  
East Harbor Arm - Dewatering Report  
Weekly Status Report

Observations by: P. Kosiro  
Weaver Consultants Group, LLC

Date: 11/26/2018 Time: 10:15 AM Barometric Pressure: 30.30 (in Hg) Temperature (F): 34  
 Staff Gauge (002) Elevation: 581.80 (Ft., MSL) Weather Conditions: Cloudy/Snow, Sleet Mix Wind Direction: E @ 8 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.51	572.81	50		#VALUE!	37,292
P-511	592.29		F	#VALUE!		X		
DW-2	595.91	24.0	23.85	572.06	38		568.21	2,207
P-512	593.16		X	#VALUE!		25.0		
DW-3	596.13	22.0	21.29	574.84	40		571.65	587,099
P-513	592.81		X	#VALUE!		21.2		
DW-4	596.28	23.0	22.23	574.05	45		567.75	96,267
P-514	592.80		7.61	585.19		25.1		
DW-5	596.16	21.0	10.21	585.95	33		570.46	88,716
P-515	592.65		X	#VALUE!		22.2		
DW-6	596.46	24.0	11.62	584.84	62		565.08	108,837
P-516	596.30		11.71	584.59		31.2		
DW-7	596.39	25.0	24.89	571.50	30		566.88	119,841
P-517	596.55		12.48	584.07		29.7		
DW-8	596.21	24.5	24.42	571.79	31		565.66	110,030
P-518	596.17		12.04	584.13		30.5		
DW-9	596.16	24.5	14.18	581.98	58		565.31	23,015
P-519	596.56		11.96	584.60		31.3		

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	24.0	23.01	573.46	48		565.60	168,036
P-520	595.93		11.73	584.20		30.33		
DW-11	595.82	25.7	27.33	568.49	32		562.74	278,839
P-521	596.19		11.92	584.27		33.45		
DW-12	595.28	26.5	25.93	569.35	35		562.24	74,760
P-522	595.17		9.33	585.84		32.9		
DW-13	594.83	27.0	26.89	567.94	21		#VALUE!	41,890
P-523	592.04		D	#VALUE!		D		
DW-14	594.83	26.5	25.52	569.31	48		#VALUE!	169,601
P-507	591.38		D	#VALUE!		D		
DW-15	594.62	29.5	26.71	567.91	35		556.63	105,680
P-524	591.55		3.78	587.77		34.92		
P-508	591.37		D	#VALUE!		D		
DW-16	594.81	36.0	35.01	559.80	33		#VALUE!	41,847

Remarks
DW-1 was adjusted down due to high initial water levels.
DW-8, DW-14 and DW-16 were adjusted up due to low initial water levels.
DW-5 and DW-6 were offline and could not be restarted to do electrical issues.
DW-9 discharge valve will not raise or lower the water level although the valve will move in both directions.
DW-11 discharge valve is stuck and will not move in either direction. DW-15 discharge valve is wide open (left) and the water level could not be lowered.

Key: TOC=Top of Casing, north side Contact: Edward Stefanek, Senior Project Manager (574) 271-3447 Tel.  
 DTW=Depth to Water 7121 Grape Road (574) 271-3343 Fax.  
 DTB=Depth to Bottom Granger, IN 46530 estefanek@wcgrp.com

**STATUS REPORT**  
Mittal Steel USA  
Burns Harbor  
East Harbor Arm - Dewatering Report  
Weekly Status Report

Observations by: J. Slough  
Weaver Consultants Group, LLc



Date: 11/29/2018 Time: 10:00 AM Barometric Pressure: 29.92 (in Hg) Temperature (F): 33  
 Staff Gauge (002) Elevation: 581.00 (Ft., MSL) Weather Conditions: Cloudy Wind Direction: E @ 7 MPH

Well/Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.39	572.93	38			37,844
P-511	592.29		F	#VALUE!		X	#VALUE!	
DW-2	595.91	24.0	23.25	572.66	36		568.21	2,483
P-512	593.16		X	#VALUE!		25.0		
DW-3	596.13	22.0	21.19	574.94	38		571.65	589,413
P-513	592.81		7.92	584.89		21.2		
DW-4	596.28	23.0	22.52	573.76	43		567.75	97,405
P-514	592.80		7.22	585.58		25.1		
DW-5	596.16	21.0	10.32	585.84	0		570.46	88,716
P-515	592.65		X	#VALUE!		22.2		
DW-6	596.46	24.0	10.94	585.52	0		565.08	108,837
P-516	596.30		11.16	585.14		31.2		
DW-7	596.39	25.0	24.89	571.50	30		566.88	121,470
P-517	596.55		12.09	584.46		29.7		
DW-8	596.21	24.5	23.85	572.36	31		565.66	111,772
P-518	596.17		11.81	584.36		30.5		
DW-9	596.16	24.5	16.21	579.95	0			24,212
P-519	596.56		11.96	584.60		31.3	565.31	

Well/Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	24.0	23.65	572.82	45			169,837
P-520	595.93		11.57	584.36		30.33	565.60	
DW-11	595.82	25.7	27.31	568.51	27		562.74	280,629
P-521	596.19		11.83	584.36		33.45		
DW-12	595.28	26.5	26.01	569.27	34		562.24	76,220
P-522	595.17		9.66	585.51		32.9		
DW-13	594.83	27.0	26.79	568.04	20		#VALUE!	42,272
P-523	592.04		D	#VALUE!		D	#VALUE!	
DW-14	594.83	26.5	26.15	568.68	44		#VALUE!	170,242
P-507	591.38		D	#VALUE!		D	#VALUE!	
DW-15	594.62	29.5	30.79	563.83	31		556.63	106,235
P-524	591.55		4.19	587.36		34.92		
P-508	591.37		D	#VALUE!		D	#VALUE!	
DW-16	594.81	36.0	35.59	559.22	30			42,109

Remarks
DW-1, DW-2, DW-4, DW-7, DW-8, DW-10, DW-12, DW-14, and DW-16 were adjusted due to low initial water levels.
DW-5 and DW-6 were offline and could not be restarted. Flow meter was also leaking profusely.
DW-9 discharge valve will not raise or lower the water level although the valve will move in both directions. Pump is operational but pressure valve was reading 0.
DW-11 discharge valve is stuck and will not move in either direction.
DW-15 discharge valve is wide open and the water level could not be raised.

Key: TOC=Top of Casing, north side  
 DTW=Depth to Water  
 DTB=Depth to Bottom  
 Contact: Edward Stefanek, Senior Project Manager  
 7121 Grape Road  
 Granger, IN 46530  
 (574) 271-3447 Tel.  
 (574) 271-3343 Fax.  
 estefanek@wcgrp.com

Observations by: J. Slough  
Weaver Consultants Group, LL

Date: 12/6/2018 Time: 9:30 AM Barometric Pressure: 30.11 (in Hg) Temperature (F): 32  
 Staff Gauge (002) Elevation: 581.10 (Ft., MSL) Weather Conditions: Cloudy Wind Direction: W @ 12 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.55	572.77	50			38,660
P-511	592.29		F	#VALUE!		X	#VALUE!	
DW-2	595.91	24.0	23.71	572.20	40		568.21	3,001
P-512	593.16		X	#VALUE!		25.0		
DW-3	596.13	22.0	21.25	574.88	40		571.65	593,223
P-513	592.81		Ice	#VALUE!		21.2		
DW-4	596.28	23.0	22.35	573.93	47		567.75	99,371
P-514	592.80		7.59	585.21		25.1		1,657
DW-5	596.16	21.0	19.65	576.51	46		570.46	
P-515	592.65		7.55	585.10		22.2		579
DW-6	596.46	24.0	23.68	572.78	76		565.08	
P-516	596.30		11.55	584.75		31.2		124,787
DW-7	596.39	25.0	24.48	571.91	31		566.88	
P-517	596.55		11.85	584.70		29.7		114,804
DW-8	596.21	24.5	23.65	572.56	32		565.66	
P-518	596.17		11.52	584.65		30.5		25,627
DW-9	596.16	24.5	15.29	580.87	0			
P-519	596.56		11.96	584.60		31.3	565.31	

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	24.0	23.22	573.25	50			173,689
P-520	595.93		11.63	584.30		30.33	565.60	
DW-11	595.82	25.7	27.27	568.55	31		562.74	284,768
P-521	596.19		11.93	584.26		33.45		
DW-12	595.28	26.5	25.72	569.56	37		562.24	79,122
P-522	595.17		9.89	585.28		32.9		43,192
DW-13	594.83	27.0	26.91	567.92	23		#VALUE!	
P-523	592.04		D	#VALUE!		D	#VALUE!	171,532
DW-14	594.83	26.5	25.78	569.05	45		#VALUE!	
P-507	591.38		D	#VALUE!		D		107,540
DW-15	594.62	29.5	26.45	568.17	34		556.63	
P-524	591.55		4.35	587.20		34.92		
P-508	591.37		D	#VALUE!		D	#VALUE!	42,705
DW-16	594.81	36.0	35.05	559.76	30			

Remarks: DW-1, DW-2, DW-4, DW-6, DW-7, DW-8, DW-10, DW-12, and DW-14 were adjusted down due to high initial water levels.  
 DW-5 and DW-6 were repaired (on 11/30/2018) with new pumps and flow gauges  
 DW-9 discharge valve will not raise or lower the water level although the valve will move in both directions. Pump is operational but pressure valve was reading 0.  
 DW-11 discharge valve is stuck and will not move in either direction.  
 DW-15 discharge valve is wide open (left) and the water level could not be adjusted lower.

Key: TOC=Top of Casing, north side Contact: Edward Stefanek, Senior Project Manager (574) 271-3447 Tel.  
 DTW=Depth to Water 7121 Grape Road (574) 271-3343 Fax.  
 DTB=Depth to Bottom Granger, IN 46530 estefanek@wcgrp.com

**STATUS REPORT**  
Mittal Steel USA  
Burns Harbor  
East Harbor Arm - Dewatering Report  
Weekly Status Report



Observations by: J. Slough  
Weaver Consultants Group, LLC

Date: 12/13/2018 Time: 9:00 AM Barometric Pressure: 30.14 (in Hg) Temperature (F): 19  
Staff Gauge (002) Elevation: 581.20 (Ft., MSL) Weather Conditions: Sunny Wind Direction: SE @ 2 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.09	573.23	48			39,666
P-511	592.29		F	#VALUE!		X	#VALUE!	
DW-2	595.91	24.0	23.87	572.04	40		568.21	3,515
P-512	593.16		X	#VALUE!		25.0	568.21	
DW-3	596.13	22.0	21.25	574.88	40		571.65	596,899
P-513	592.81		8.24	584.57		21.2	571.65	
DW-4	596.28	23.0	22.78	573.50	45		567.75	102,119
P-514	592.80		8.21	584.59		25.1	567.75	
DW-5	596.16	21.0	19.57	576.59	47		570.46	3,041
P-515	592.65		8.36	584.29		22.2	570.46	
DW-6	596.46	24.0	23.66	572.80	72		565.08	3,127
P-516	596.30		12.34	583.96		31.2	565.08	
DW-7	596.39	25.0	24.22	572.17	40		566.88	127,907
P-517	596.55		12.59	583.96		29.7	566.88	
DW-8	596.21	24.5	23.51	572.70	32		565.66	118,372
P-518	596.17		12.02	584.15		30.5	565.66	
DW-9	596.16	24.5	15.71	580.45	45		565.31	27,007
P-519	596.56		11.96	584.60		31.3	565.31	

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	24.0	23.85	572.62	50		565.60	177,570
P-520	595.93		11.69	584.24		30.33	565.60	
DW-11	595.82	25.7	27.28	568.54	32		562.74	288,993
P-521	596.19		11.93	584.26		33.45	562.74	
DW-12	595.28	26.5	25.78	569.50	37		562.24	82,097
P-522	595.17		9.88	585.29		32.9	562.24	
DW-13	594.83	27.0	26.91	567.92	24		#VALUE!	44,075
P-523	592.04		D	#VALUE!		D	#VALUE!	
DW-14	594.83	26.5	25.65	569.18	45		#VALUE!	172,857
P-507	591.38		D	#VALUE!		D	#VALUE!	
DW-15	594.62	29.5	26.65	567.97	35		556.63	108,703
P-524	591.55		4.52	587.03		34.92	556.63	
P-508	591.37		D	#VALUE!		D	#VALUE!	
DW-16	594.81	36.0	35.15	559.66	34		43,249	43,249

Remarks
DW-2, DW-5, DW-7, DW-10, DW-12, DW-14 and DW-16 were adjusted down due to high initial water levels.
DW-4 was adjusted up due to low initial water levels.
DW-9 discharge valve will not raise or lower the water level although the valve will move in both directions.
DW-11 discharge valve is stuck and will not move in either direction.
DW-15 discharge valve is wide open (left) and the water level could not be adjusted lower.

Key: TOC=Top of Casing, north side Contact: Edward Stefanek, Senior Project Manager (574) 271-3447 Tel.  
DTW=Depth to Water 7121 Grape Road (574) 271-3343 Fax.  
DTB=Depth to Bottom Granger, IN 46530 estefanek@wcgrp.com

**STATUS REPORT**

Mittal Steel USA  
Burns Harbor

East Harbor Arm - Dewatering Report  
Weekly Status Report



Observations by: J.Slough  
Weaver Consultants Group, LLC

Date: 12/20/2018 Time: 9:00 AM Barometric Pressure: 29.72 (in Hg) Temperature (F): 46  
 Staff Gauge (002) Elevation: 581.00 (Ft., MSL) Wind Direction: SSE @ 8 MPH  
 Weather Conditions: Cloudy

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.19	573.13	46			40,669
P-511	592.29		F	#VALUE!		X	#VALUE!	
DW-2	595.91	24.0	23.35	572.56	32		568.21	4,162
P-512	593.16		X	#VALUE!		25.0		
DW-3	596.13	22.0	21.39	574.74	40		571.65	600,414
P-513	592.81		8.48	584.33		21.2		
DW-4	596.28	23.0	22.93	573.35	45		567.75	103,989
P-514	592.80		8.65	584.15		25.1		
DW-5	596.16	21.0	20.48	575.68	32		570.46	5,274
P-515	592.65		9.02	583.63		22.2		
DW-6	596.46	24.0	23.82	572.64	72		565.08	5,611
P-516	596.30		12.78	583.52		31.2		131,007
DW-7	596.39	25.0	24.86	571.53	39		566.88	121,888
P-517	596.55		12.94	583.61		29.7		
DW-8	596.21	24.5	24.35	571.86	32		565.66	28,391
P-518	596.17		12.35	583.82		30.5		
DW-9	596.16	24.5	16.52	579.64	45		565.31	
P-519	596.56		11.96	584.60		31.3		

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	24.0	23.95	572.52	45		565.60	181,596
P-520	595.93		11.87	584.06		30.33		
DW-11	595.82	25.7	27.35	568.47	27		562.74	293,107
P-521	596.19		12.14	584.05		33.45		
DW-12	595.28	26.5	26.08	569.20	30		562.24	85,251
P-522	595.17		10.08	585.09		32.9		
DW-13	594.83	27.0	26.92	567.91	21		#VALUE!	44,912
P-523	592.04		D	#VALUE!		D	#VALUE!	
DW-14	594.83	26.5	25.58	569.25	48		#VALUE!	174,346
P-507	591.38		D	#VALUE!		D	#VALUE!	
DW-15	594.62	29.5	29.48	565.14	31		556.63	109,851
P-524	591.55		4.43	587.12		34.92		
P-508	591.37		D	#VALUE!		D	#VALUE!	
DW-16	594.81	36.0	37.85	556.96	28		43,822	

Remarks: DW-1, DW-2, DW-5, DW-6, DW-7, DW-8, DW-10, DW-12, DW-14 and DW-15 were adjusted up due to low water levels.  
 DW-9 discharge valve raised the water level when turned to the right; however, it will not lower the water level when turned to the left.  
 DW-11 discharge valve is stuck and will not move in either direction.  
 DW-15 discharge valve was able to adjust the this week due to an initial low water level and the valve being turned to the right.  
 DW-16 discharge valve will not lower the water level when the valve is turned to the right.

Key: TOC=Top of Casing, north side Contact: Edward Stefanek, Senior Project Manager (574) 271-3447 Tel.  
 DTW=Depth to Water 7121 Grape Road (574) 271-3343 Fax.  
 DTB=Depth to Bottom Granger, IN 46530 estefanek@wcgrp.com

Observations by: P. Kostro  
Weaver Consultants Group, LLC

Date: 12/27/2018 Time: 9:00 AM Barometric Pressure: 30.02 (in Hg) Temperature (F): 39  
 Staff Gauge (002) Elevation: 580.50 (Ft., MSL) Weather Conditions: Rain Wind Direction: SSE @ 8 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.02	573.30	51			40,998
P-511	592.29		F	#VALUE!		X	#VALUE!	
DW-2	595.91	24.0	23.74	572.17	42		568.21	4,173
P-512	593.16		X	#VALUE!		25.0		
DW-3	596.13	22.0	21.39	574.74	40			604,001
P-513	592.81		8.48	584.33		21.2	571.65	
DW-4	596.28	23.0	22.03	574.25	45			105,892
P-514	592.80		8.19	584.61		25.1	567.75	
DW-5	596.16	21.0	20.42	575.74	48			6,862
P-515	592.65		X	#VALUE!		22.2	570.46	
DW-6	596.46	24.0	23.05	573.41	72			7,754
P-516	596.30		12.42	583.88		31.2	565.08	
DW-7	596.39	25.0	24.09	572.30	40			134,270
P-517	596.55		12.52	584.03		29.7	566.88	
DW-8	596.21	24.5	23.62	572.59	32			124,878
P-518	596.17		12.73	583.44		30.5	565.66	
DW-9	596.16	24.5	11.72	584.44	0			28,981
P-519	596.56		11.96	584.60		31.3	565.31	

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	24.0	23.08	573.39	48			185,778
P-520	595.93		11.72	584.21		30.33	565.60	
DW-11	595.82	25.7	27.35	568.47	32			297,226
P-521	596.19		12.06	584.13		33.45	562.74	
DW-12	595.28	26.5	26.13	569.15	36			88,133
P-522	595.17		9.98	585.19		32.9	562.24	
DW-13	594.83	27.0	26.52	568.31	24			45,815
P-523	592.04		D	#VALUE!		D	#VALUE!	
DW-14	594.83	26.5	25.52	569.31	45			175,426
P-507	591.38		D	#VALUE!		D	#VALUE!	
DW-15	594.62	29.5	29.14	565.48	34			111,092
P-524	591.55		4.45	587.10		34.92	556.63	
P-508	591.37		D	#VALUE!		D	#VALUE!	
DW-16	594.81	36.0	35.82	558.99	34			44,425

Remarks
DW-1, DW-2, DW-4, DW-5, DW-6, DW-7, DW-8, DW-10, DW-12 and DW-14 were adjusted down due to high initial water levels.
DW-1 and DW-2 were offline upon arrival and successfully restarted.
DW-9 was offline upon arrival and could not be restarted. The pressure gauge read "0".
DW-11 discharge valve is stuck and will not move in either direction.

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